

**Lubricant oil composite****Patent number:** CN1400295**Publication date:** 2003-03-05**Inventor:** MITSUAKI ISHIMARU (JP); TAKA SATO (JP)**Applicant:** NIPPON OIL CORP (JP)**Classification:**

**- International:** C10M129/10; C10M129/54; C10M133/56; C10M135/10;  
C10M135/18; C10M137/02; C10M137/10; C10M139/00;  
C10M139/06; C10M159/22; C10M159/24; C10M169/04;  
C10M137/04; C10M129/00; C10M133/00; C10M135/00;  
C10M137/00; C10M139/00; C10M159/00; C10M169/00;  
(IPC1-7): C10M139/06

**- european:****Application number:** CN20020126991 20020730**Priority number(s):** JP20010232827 20010731**Also published as:**

JP2003041283 (A)

[Report a data error here](#)

Abstract not available for CN1400295

Abstract of corresponding document: JP2003041283

**PROBLEM TO BE SOLVED:** To provide a lubricating oil composition which excels in fuel consumption saving performance at middle and high temperatures and, in addition, excels in wet clutch friction properties. **SOLUTION:** The lubrication oil composition comprises a base oil and, based on the total weight of the composition, (A) 0.003-0.1 mass%, in terms of Mo element, organomolybdenum compound, (B) 0.08-0.3 mass%, in terms of N element, boron-containing succinimide and/or boron-free succinimide at a mass ratio of component (B) in terms of N element to component (A) in terms of Mo element of  $\geq 1.6$ , (C) 0.01-0.16 mass%, in terms of an alkaline earth metal, alkaline earth metal-based cleaning agent, (D) 0.01-0.1 mass%, in terms of zinc element, zinc dithiophosphate, (E)  $\leq 0.1$  mass%, in terms of phosphorus element, phosphoric (phosphorous) esters and, simultaneously, with a sulfate ash in the composition of  $\leq 1$  mass%.

---

Data supplied from the esp@cenet database - Worldwide

BEST AVAILABLE COPY